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Group Art Unit: 1744

In the Claims:

4. (Currently amended) An extraction surface cleaning apparatus having:
a housing;
at least two wheels mounted to the housing for supporting the housing for movement
along a surface to be cleaned;
5 a liquid dispensing system mounted to the housing and including:
a liquid dispensing nozzle for applying a cleaning fluid to the surface to be
cleaned;
a fluid supply chamber for holding a supply of cleaning fluid;
a fluid supply conduit fluidly connected to the fluid supply chamber and to the
10 dispensing nozzle for supplying liquid cleaning fluid to the dispensing nozzle;
a fluid recovery system mounted to the housing and including:
a recovery chamber for holding recovered fluid,
a suction nozzle,
a working air conduit extending between the recovery chamber and the suction
15 nozzle; and
a vacuum source in fluid communication with the recovery chamber for
generating a flow of working air from the suction nozzle through the working air conduit and
through the recovery chamber to thereby draw dirty liquid from the surface to be cleaned through
the suction nozzle and the working air conduit, and into the recovery chamber;
20 a detector mounted on the housing for sensing the speed of the housing across the surface
being cleaned and for generating a speed signal representative thereof;
an output device mounted on the housing and coupled to the detector for displaying or
audibly expressing the relative speed of the housing across the surface being cleaned;
wherein the detector is aligned with and adjacent to one of the at least two wheels and is
adapted to detect the rotational motion of the one of the at least two wheels without physically
contacting the wheel; and

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a first disk portion mounted to the one of the at least two wheels for rotation therewith;
and wherein the detector is aligned with and adjacent to the first disk portion adapted to generate
a speed signal representative of the rotation of the first disk portion;

the improvement comprising:

5 wherein the first disk portion has alternating opposite-polarity magnetic segments thereon
and the detector is adapted to sense the rotational speed of the first disk portion by detecting
changes in the magnetic polarity of a particular segment of the first disk portion.

8. (Currently amended) An extraction surface cleaning apparatus having:

an extraction housing including a suction nozzle adapted to be moved along a
floor surface to be cleaned;

5 at least one wheel mounted to the extraction housing in supporting relationship
thereto for rotation about a horizontal axis and movement of the extraction housing along the
floor surface;

a handle ~~pivotal~~ mounted to the extraction housing for grasping by a user and
propelling the extraction housing over the floor surface;

10 a cleaning fluid delivery system interconnected with the extraction housing and
movable therewith to apply a cleaning solution to the floor surface;

a fluid recovery system interconnected with the extraction housing to recover
soiled cleaning solution from the floor surface;

15 a detector mounted to the extraction housing for detecting the relative speed of the
extraction housing relative to the floor surface and for generating a signal representative of the
detected speed;

wherein the detector is aligned with and adjacent to the at least one wheel and is
adapted to detect the rotational motion of the at least one wheel without physically contacting the
wheel; and

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an output device operably interconnected with the detector, adapted to receive the
20 signal generated by the detector and to indicate to the user the detected relative speed of the
extraction housing.

13. (Currently amended) The extraction surface cleaning apparatus of claim 8 and
further comprising wherein the at least two one wheels comprises at least two wheels mounted to
the extraction housing in supporting relationship thereto for rotation about the horizontal axis,
and wherein the detector is aligned with and adjacent to one of the at least two wheels ~~and is~~
5 ~~adapted to detect the rotational motion of the one of the at least two wheels without physically~~
~~contacting the wheel.~~

26. (New) The extraction surface cleaning apparatus of claim 8 wherein the handle is
mounted to the extraction housing for pivotal movement about the horizontal axis of rotation of
the wheels.